Work Order ID 73034 Wednesday, August 24, 2011 2:23:32 PM							M	(1)	01	124	Page 1
Item ID: Revision ID: Item Name:	D3391-023 Mid Tube As			Accept					Setup St St	1 (88(1181)	
	8/24/2011	Start Qty: 1.0 Req'd Qty: 1.0			Cust Item Customer:	ID:				1 10 0 11 20 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Approvals:	Process Pl	lan:	Date/f/08-14	Tooling: SPC (Y/N):		ate:]		art	
Sequence ID/ Work Center II	D	Operation Description		Set Up/ Run Hours	Tool ID	Tool#	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Re	vision Nbr						 -			
D3391	Re	v H									
100 		Skidtubes Memo		0.00						 	DA
Skidtubes		1-Cut to 2-Identi 3-Drill saddle l	the to finish length as per Dwg fy as D3391-023 pilot holes using DT8796 (Do note on one side only as per Dw saddles and GHW holes to Ø0	not drill "B" holes) and d	•					·	૫/૦૭/૪
		6-Remo 7-Debu 8-Drill paint m 9-Open (14 hole wearpla	#30 pilot holes using wearplate arker, wearplate holes of D3391-023 es) as per Dwg D3391 and 2 ho te holes of section "J" n wearplate holes of D3391-02	ft end of skidtube as per Jig DT8217 Identify Ø0 assembly detail section oles in section Detail "J"	O.250" holes with G-G to Ø0.250" do not open						

Dart	Aer	os	pac	e L	td

Duit Aci	oopaoc									. 1			
W/O:			W	ORK ORDER CHANG	GES		· · ·						
DATE	STEP	PRO	CEDURE CH	ANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector			
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		•											
Part No	•	, PAR #:	PAR #: PAR #: NCF					NCR: Yes No DQA: Date: _					
	R	esolution:	, Dispositi	on:	QA:	N/C Clo	sed:		Date: _				
NCR:			WORK ORI	DER NON-CONFORM	IANCE	(NCR))						
DATE	STEP	Description of NC	Initial		ction B	Sign &		cation	Approval	Approval			
		Section A	Initial Chief Eng	Action Description Chief Eng		Date	Secti	on C	Chief Eng	QC Inspector			
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				-i									

Page 2

Insp.

Stamp

Work Order ID 73034 Wednesday, August 24, 2011 2:23:32 PM Item ID: D3391-023 Accept Setup Start **Revision ID:** Stop Item Name: Mid Tube Assembly **Start Date:** 8/24/2011 Start Oty: 1.00 **Cust Item ID:** Required Date: 8/31/2011 Reg'd Oty: 1.00 **Customer:** Reference: Run Start Process Plan: Date: Tooling: **Approvals:** Date: Stop Date: SPC (Y/N): Date: Sequence ID/ **Operation** Tool ID Tool # Plan Set Up/ Reject Reject Accept Work Center ID Description **Run Hours** Code Qty Qty Number 11-Open .375" holes to .438" ***do not open fwd saddle holes*** 12 Locate D3391-021 in D3391-023 at 9.00" (see viewz-z) W// 13- Transfer drill one fwd saddle hole only to 188" dia, transfer drill all remaining fwd saedle holes using DT 8149 locating from previusly drill .188" dia hole, using t-pins and clicos to ensure perfect allingment, open up previusly tranfer drilled pilot holes in D3391-023/-021 to 0.438" dia. in D3391-021 14- Transfer drill 2 wearplate holes into D3391-021 using DT8217, locating from two previously drilled holes, drill remaining wearplate holes into D3391-021. 15- Locating from two fwd wearplate holes drilol remaining 6 wearplte holes in D2391-021 using DT8937 16- Open 2 fwd wearplate holes in D3391-023 to .250" dia. 17- counterbore two aft wearplate holes in D3391-021 as per dwg 18- Open 12 wearplate holes in D3391-021 to 0.297" dia.

19-Deburr and blow out all chips from inside tube

20- Open hales # 2 + # 4 of Fud Soddle } Of 11/08/29, copen DWG D3391 Section & page 2.

DL 11/00/29

Dart Aerospace L	_td
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W/O:			٧	VORK ORDER CHAN	NGES				•
DATE	STEP	PRO	CEDURE C	HANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Page 3

Wednesday, August 24, 2011 2:23:32 PM

Item ID:

D3391-023

Accept

Setup Start

Stop



Revision ID:

Item Name:

Mid Tube Assembly

Start Date:

Required Date: 8/31/2011

8/24/2011

Start Qty: 1.00

Req'd Qty: 1.00



Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

Date: _____

SPC (Y/N): Date:

Tooling: Date: Run

Start

Sequence ID/

Work Center ID

110

QC

Quality Control

Operation

QC5- Inspect part completeness to step on W/O

Set Up/ **Run Hours**

Stop

120

HandFinish

Hand Finishing

Description

Memo

Tool ID

Date:

Tool # Plan Code

Accept Qty

Reject Qty

Reject Insp. Number Stamp

Chemical Conversion Coat per QSI005 4.1

130

Quality Control

QC3- Inspect Part Finish

Memo

Memo

0.00

0.00

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Dart Aerospace I	Ltd
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W/O:	,		V	VORK ORDER CHANG	GES			-e:
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NCR:	:	3	WORK OR	DER NON-CONFORM	IANCE (NCR)		
DATE	STEP	Description of NC Section A	Initial Chief Eng	Corrective Action Sec Action Description Chief Eng	ction B Sign & Date	Verification Section C	Approval Chief Eng	Approval QC Inspector
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Wednesday, August 24, 2011 2:23:32 PM

Item ID:

D3391-023

Accept



Setup

Start

Stop



Revision ID:

Item Name:

Mid Tube Assembly

Start Date:

8/24/2011

Start Qty: 1.00

Req'd Qty: 1.00



Cust Item ID:

Customer:

Tool ID

Reference:

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Ap.	provals:	

Process Plan: Date:

Tooling:

0.00

0.00

Date:

Run

Start

Reject

Qty



Number Stamp

Insp.

Required Date: 8/31/2011

Date:

SPC (Y/N):

Set Up/

Run Hours

Date:

Accept

Qty

Stop

Reject

Sequence ID/ **Work Center ID**

140

Skidtubes Skidtubes

Skidtubes

Operation

Description

Memo

1-Open float bag holes as per dwg 2-C'sink float bag holes as per dwg

3- Prepare tube for welding

4-Bond web in place as per Dwg D3391 & QSI 015.

Adhere for 12 hours) 175/6

OC5- Inspect part completeness to step on W/O

batch#: 12 3115

Memo

0.00

0.00



Tool # Plan

Code

160

150

Quality Control

Skidtubes

Skidtubes

1-Weld crossbolt spacer as per dwg D3391 & QSI 004 2-grind weld flush

Dl 11/08/31

A/R M117884

1 8 BE 11/08/31

1 8 BEND8/31

Skidtubes

Memo

0.00

0.00

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W/O:			V	VORK ORD	ER CHANG	ES					
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Page 5

Item ID:

D3391-023

Mid Tube Assembly

Accept

Setup Start

Stop

Start Date:

Revision ID:

Item Name:

8/24/2011

Wednesday, August 24, 2011 2:23:32 PM

Start Oty: 1.00 Reg'd Qty: 1.00

Cust Item ID:

Customer:

Tool ID

Reference:

Approvals:

Process Plan: Date:

Tooling:

Date:

Tool # Plan

Code

Start

Run

Accept

Qty



Reject

Number

Required Date: 8/31/2011

OC:

Date:

SPC (Y/N):

Date:

Stop

Reject

Qty

Insp.

Stamp

Sequence ID/ **Work Center ID**

170

Quality Control

Operation Description

OC10- Inspect visual per OSI004- ground welds

Set Up/ **Run Hours**

0.00

0.00 8 11/02/3/

Memo

180

OC

Quality Control

QC5- Inspect part completeness to step on W/O

0.00

0.00

Dul02/3/

Memo

185

HandFinish

Hand Finishing

Pressure Wash per QSI005 4.3

0.00

Memo

0.00

AND REALODINE AS PER PAR09-043

1 Bl 11.8-31.

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W/O:	T		V	ORK ORDER CHANG	GES			· · · · · · · · · · · · · · · · · · ·	*
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NCR:		,	WORK OR	DER NON-CONFORM	ANCE (NO	CR)			,
DATE	STEP	Description of NC		Corrective Action Section B			erification	Approval	Approval
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Wednesday, August 24, 2011 2:23:32 PM



Page 6

Item ID:

D3391-023

Accept



Setup Start



Revision ID:

Item Name:

Mid Tube Assembly

Start Date:

Required Date: 8/31/2011

8/24/2011

Start Qty: 1.00

Req'd Qty: 1.00



Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

Date: _____

Date: Tooling:

SPC (Y/N):

Date:

Date:

Start

Stop

Stop



Sequence ID/

Work Center ID

Operation Description

White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum

Set Up/

Run Hours

0.00

Tool ID

Tool # Plan

Accept Code Qty

Reject Qty

Run

Reject Number

Insp. Stamp

190

200

Powdercoat

Powder Coating

START TIME:

FINISH TIME:

0.00

Quality Control

Memo

QC3- Inspect Part Finish

0.00

1 p M 11/08/02

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W/O:			W	ORK ORDER CHANGE	ES				•
DATE	STEP	PRO	CEDURE CH	ANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Page 7

Wednesday, August 24, 2011 2:23:32 PM

Item ID:

D3391-023

Accept



Setup Start

Stop



Revision ID:

Item Name:

Mid Tube Assembly

Start Date:

8/24/2011

Start Qty: 1.00

Req'd Qty: 1.00



Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

Date:

Date:

Tooling:

SPC (Y/N):

Date:

Start



Sequence ID/ **Work Center ID**

210

Required Date: 8/31/2011

Skidtubes Skidtubes

Description

Operation

Skidtubes

Set Up/ **Run Hours**

Tool ID

Date:

Tool #

Plan Code

Accept Qty

Run

Qty

Reject Reject

Insp. Number Stamp

Memo

0.00

0.00

1- insert D3391-021 into D3391-23

2- insert T-pins into first and third fwd saddle holes

3- ON FIRST SIDE ONLY drill out 2nd and forth fwd saddles holes to 0.500" per DSI 9364

4- remove T-pins and locate DT9415 from first and third crossbolt have using Tpins and clekos

5- ON 2ND SIDE ONLY ream out 2nd and forth saddle hole to 0.499". Remove DT9415

6- deburr, re-alodine and blow out chips

7- press fit D3591-1 spacers using DT9416 starting from 0.500" side

QC5- Inspect part completeness to step on W/Q

0.00

220

Memo

0.00

Quality Control

13

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W/O:			WC	ORK ORDER CHANGI	ES			· · · · · · · · · · · · · · · · · · ·	•	
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NCR:			WORK ORDER NON-CONFOI							
DATE	STEP	Description of NC			on B	Verific	ation	Approval	Approval	
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Wednesday, August 24, 2011 2:23:32 PM



Page 8

Item ID:

D3391-023

Accept

Setup Start

Stop



Revision ID:

Item Name:

Required Date: 8/31/2011

Mid Tube Assembly

8/24/2011

Start Qty: 1.00

Req'd Qty: 1.00



Cust Item ID:

Customer:

Reference:

Start Date:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run

Start



Date:_____

SPC (Y/N):

Date:

Stop

Sequence ID/ Work Center ID

230

HandFinish

Hand Finishing

Operation Description

Memo

Memo

Install Inserts as per Dwg

Set Up/ **Run Hours**

0.00

0.00

Tool ID

Tool # Plan Code

Accept Qty

Reject Qty

Reject

Insp. Number Stamp Pto =)

240

Quality Control

250

Packaging

Packaging

HandFinishing

QC5- Inspect part completeness to step on W/O

Identify as per dwg & Stock Location:

0.00

0.00

0.00

0.00

Sul ofla

Dart Aerospac

W/0:73	3034	WORK ORDER CH	ANGES				
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
11.09.0	230	Assemble w/ 1 x D3564-5 B 72849 1 x D3566-5 B 72849 12 y AN 3C4A M119628 12 x NASH 49 CO 332R M118354	All .	· Classa	11 12	11.09.02	

Part No:		PAR #:	Fault Category:	NCR: Yes No DC	QA:	Date:
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Wednesday, August 24, 2011 2:23:32 PM



Page 9

Item ID:

D3391-023

Accept

Setup Start



Revision ID:

Item Name:

Mid Tube Assembly

Stop



Start Date:

Required Date: 8/31/2011

8/24/2011

QC:

Start Qty: 1.00 Req'd Qty: 1.00 **Cust Item ID:**

Customer:

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Process Plan:

Date:

Tooling:

Date:

Run

Start



Date:

SPC (Y/N):

Date:

Stop

Sequence ID/

Work Center ID

Operation Description

QC21- Final Inspection - Work Order Release

Set Up/ **Run Hours** Tool ID

. Tool# Plan Code Accept Qty

Reject

Reject Insp. Number Stamp

260

Memo

0.00

0.00

Qty

Quality Control

W11.09.02

	Johago									 **
W/O:	Ī	The state of the s	W	ORK ORDER CH	IANGES		····		,	
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DATE	STEP	Description of NC		Corrective Action	Section B		Verific	ation	Approval	Approval
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Picklist Print

Wednesday, August 24, 2011 2:23:37 PM

Work Order ID: 73034

Parent Item:

D3391-023

Parent Item Name: Mid Tube Assembly



KJ/EC□

EC EC

EC

LG

 $EC\Box$

Start Date: 8/24/2011

Required Date: 8/31/2011

Start Qty: 1.00

Required Qty: 1.00

Comments:

IPP A□05.10.20□New Issue□

IPP B□06.02.10□ECN773 dwg rev.D

IPP C 07.03.20 rev F dwg

IPP D 07.03.28 re-format

IPP E 07.10.31 ecn 1053P

IPP Rev:F ECN 1056 07-11-13 DD

verified by: EC

IPP Rev:G 08-09-08 new process (ecn 08-510) DD verified by:EC

IPP Rev:H 08-09-10 revH as per dwg DD verified by:EC

IPP Rev: I 08-11-13 Removed steps per w/o, QC KJ verified by: ec IPP Rev:J add in seq 140 expire date &b# sikaflex DD 10.02.17 verified by:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D2500-1-100		Manufactured	No			100	Each	76.0000	1	1			ØL
			*:	Location		Loc	Oty	Loc Code					11/08/
				HALL			76	-					11 0/0
					37065		1		_		- -		
* :	•			\leq	50251		75		_		_		
D3391-021		Manufactured	No			100	Each	0.0000	1	1			
Fwd Tube Assembly		ch											
D3389-1		Manufactured	No			140	Each	7.0000				3	11/8/31
WOD				Location		<u>Loc (</u>	<u>Qty</u>	Loc Code		_			

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Wednesday, August 24, 2011 2:23:37 PM

Work Order ID: 73034 Parent Item: D3391-023 Parent Item Name: Mid Tube Assembly Required Date: 8/31/2011 Start Date: 8/24/2011 Required Qty: 1.00 Start Qty: 1.00 D3681-1 Manufactured No 160 65.0000 Each 5 Spacer Location Loc Qty Loc Code LG 65 68958 2 69893 2 71845 61 Manufactured No 210 43.0000 Each Bushing Location Loc Oty Loc Code ST068 43 57350 1 66147 14 71847 28 ALS4-1032-130 Purchased No 230 Each 1,559.000 Insert Location Loc Qty Loc Code ST281 370 118386 370 ST282 1189 117717 54 879 118237 118312 256

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412 FLOAT SKIDTUBE

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DE APPR

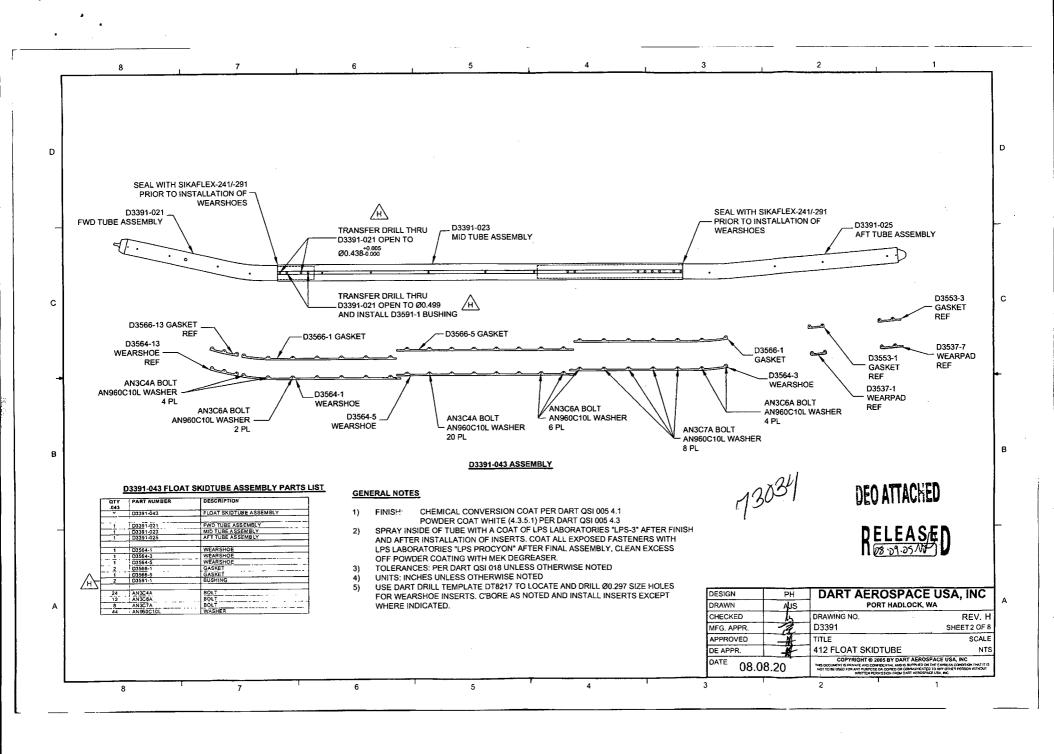
08.08.20

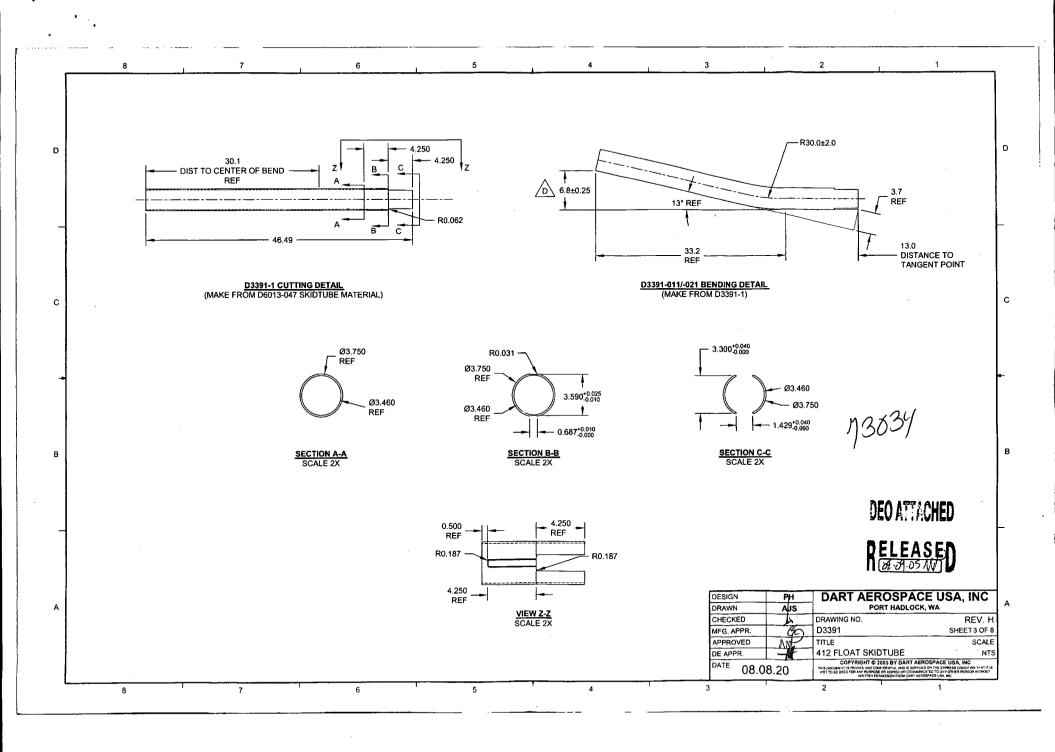
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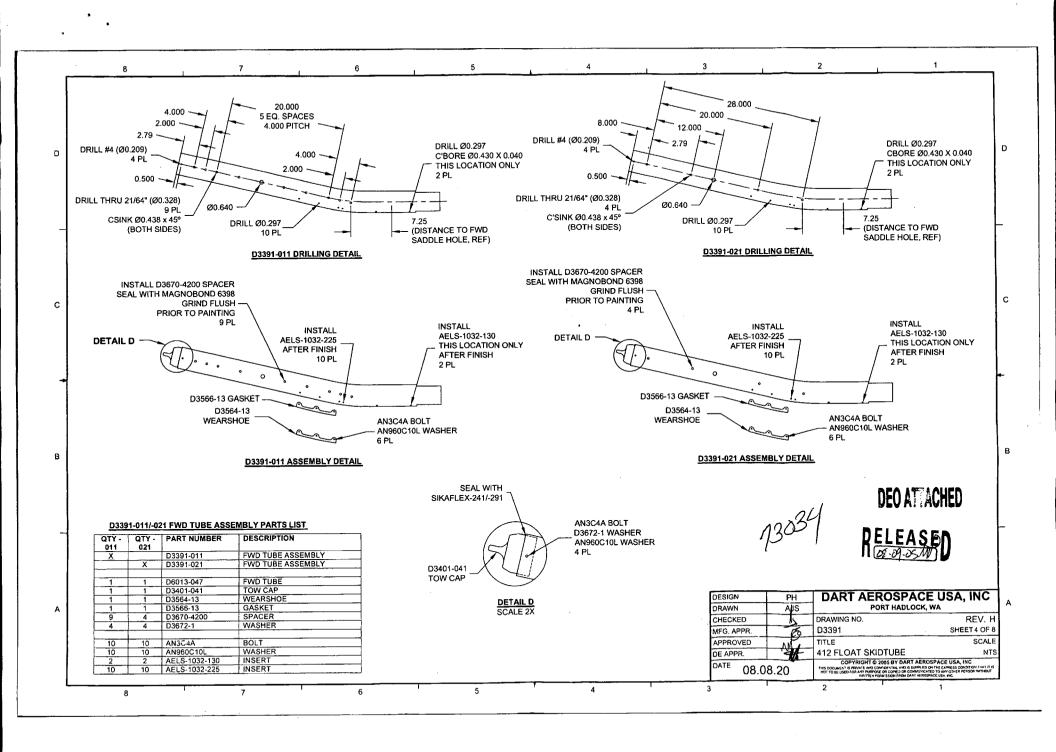
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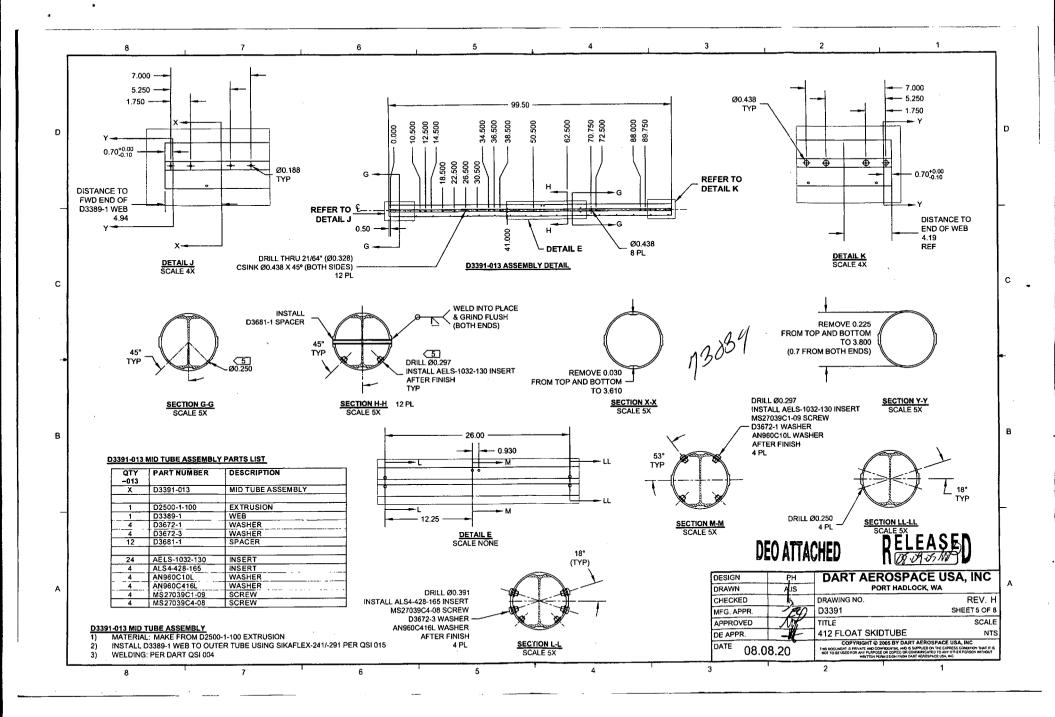
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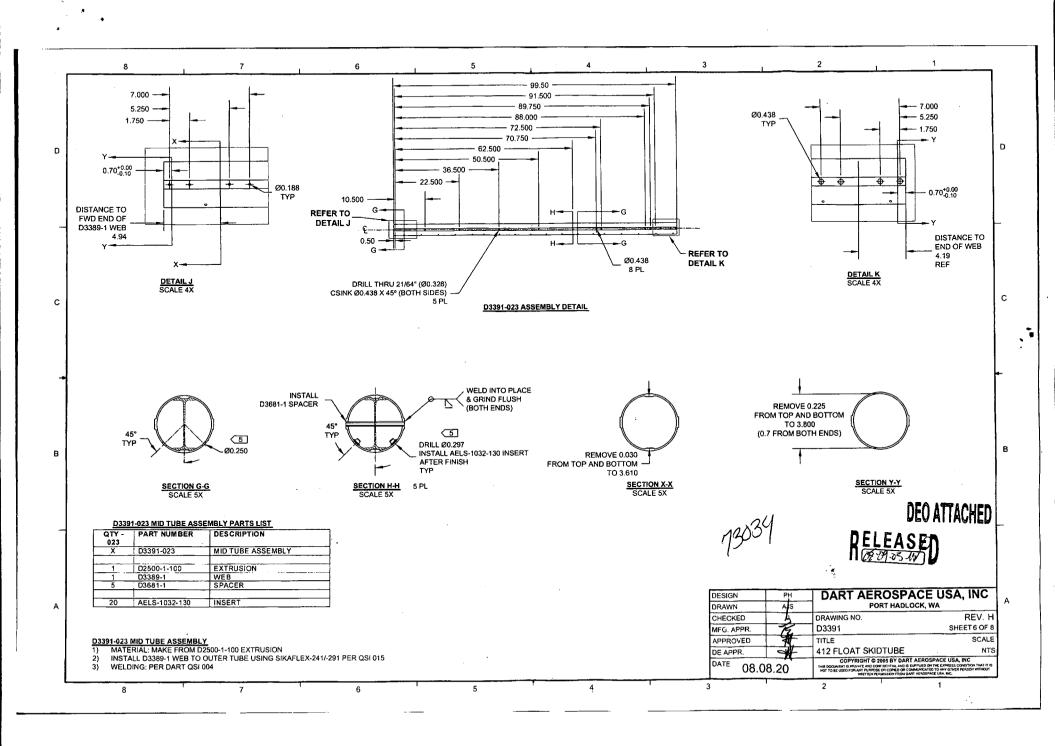
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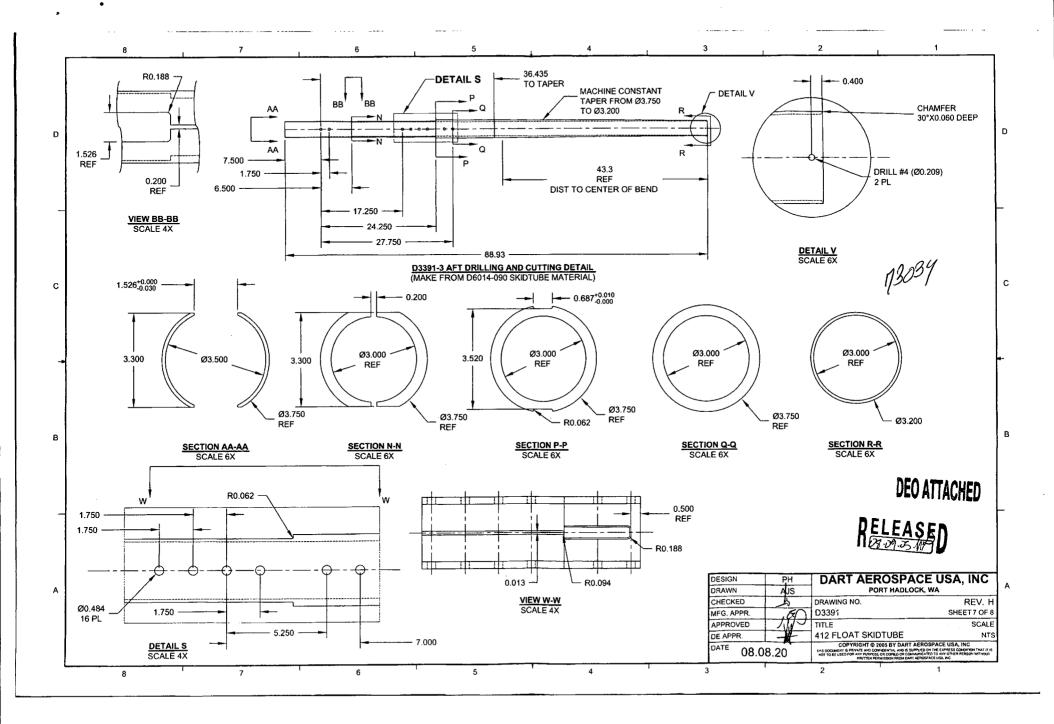


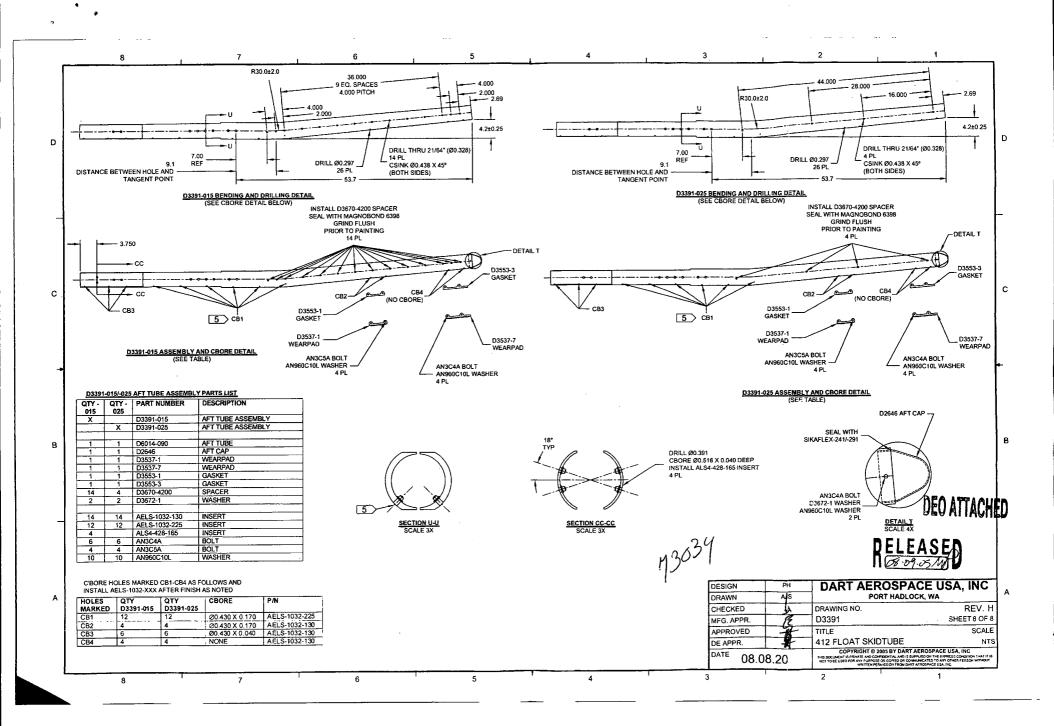












DRAWING NO).	TITLE		REV. H	DART AEROSPA	CE USA, INC D.E.O. NO.	SHEET NO.	SCALE
D3391		412 FLOAT S	SKIDTUBE	,	ENGINEERING	ORDER D3391-H-1	SHEET 1 OF 1	NTS
DRAWN	de	7	CHECKED	li li	MFG. APPR.	APPROVED MA	DE APPR.	
DATE	09.09.	23	DATE	04.04.24	DATE 09/09	125 DATE 09/09/38	DATE 09/09/3	6

PURPOSE:

LPS-3 IS NO LONGER USED DURING ASSEMBLY OF D3391-041/-043 SKIDTUBES.

CHANGE:

AMEND NOTE 2 OF D3391-041/-043 SKIDTUBE ASSEMBLIES (ZN A6-1, A6-2) AS FOLLOWS:

2) SPRAY INSIDE OF TUBE WITH A COAT OF LPS LABORATORIES "LPS-3" AFTER FINISH AND AFTER INSTALLATION OF INSERTS: COAT ALL EXPOSED FASTENERS WITH LPS LABORATORIES "LPS PROCYON" AFTER FINAL ASSEMBLY, CLEAN EXCESS OFF POWDER COATING WITH MEK DEGREASER.

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NO. 256

AWS D17.1.2001 QUALIFICATION TEST RECORD

2016/21/5/1/5
Name: Darclay (1/10)
Job number: 0370/80
Part number: <u>1339</u> - 023
Description: Mid Tube
Welding Process: Tigt Mig[]
Base materiel: (aliminum
Current: AC[\(\frac{1}{2}\)] DC[]
`
TEST REQUIREMENTS AND RESULTS
TEST REQUIREMENTS AND RESULTS

Visual: Penetration:	pass[fail[] pass[fail[]
UNACCEPTABLE	
Cracks: Undercut: Pin holes: Overlap (cold lap) Porosity (surface): Coloration:	pass[fail[]
Qualifier fat frees Welder Borclay Charl	Date of Test Coupon // 06 20 Date of Test Coupon // 0620

The above named individual is qualified in accordance with AWS D17.1.2001 to weld

W/O:			WC	ORK ORDER CHANGE	S				
DATE	STEP	PROCEDURE CHANGE			Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No: PAR #: _		PAR #:	Fault Cate	gory:	NCR: Yes	No DQ	\ :	_ Date: _	
				A: N/C Closed: Date:					
NCR:		V	VORK ORD	ER NON-CONFORMAI	NCE (NCR)			
DATE		Description of NC	Corrective Action Section B			Verific	ication	Approval Chief Eng	Approval QC Inspector
		Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C			
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